

#15



PCT

RAW SEQUENCE LISTING

DATE: 02/11/2003

PATENT APPLICATION: US/09/831,455B

TIME: 14:30:09

Input Set : A:\pf0634usn_subseqlist.txt

Output Set: N:\CRF4\02112003\I831455B.raw

1 <110> APPLICANT: INCYTE GENOMICS, INC.; TANG, Y. Tom;
 2 HILLMAN, Jennifer L.; YUE, Henry;
 3 LAL, Preeti; BANDMAN, Olga;
 4 CORLEY, Neil C.; GUEGLER, Karl J.;
 5 BAUGHN, Mariah R.; LU, Dyung Aina M.;
 6 AZIMZAI, Yalda; YANG, Junming
 8 <120> TITLE OF INVENTION: HUMAN HYDROLASE PROTEINS
 10 <130> FILE REFERENCE: PF-0634 USN
 12 <140> CURRENT APPLICATION NUMBER: US 09/831,455B
 C--> 13 <141> CURRENT FILING DATE: 2002-11-07
 15 <150> PRIOR APPLICATION NUMBER: PCT/US99/27009
 16 <151> PRIOR FILING DATE: 1999-11-12
 18 <150> PRIOR APPLICATION NUMBER: US 60/135,519
 19 <151> PRIOR FILING DATE: 1999-05-21
 21 <150> PRIOR APPLICATION NUMBER: US 60/172,256
 22 <151> PRIOR FILING DATE: 1998-11-12
 24 <160> NUMBER OF SEQ ID NOS: 35
 25 <170> SOFTWARE: PERL Program
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 159
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Homo sapiens
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 33 <221> NAME/KEY: misc_feature
 34 <223> OTHER INFORMATION: Incyte ID No: 2293764CD1
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 42 35 40 45
 43 Val Gly Asp Trp Leu Cys Met Ala His Tyr Glu Ser Gly Phe Asp
 44 50 55 60
 45 Thr Ala Phe Val Asp His Asn Pro Asp Gly Ser Ser Glu Tyr Gly
 46 65 70 75
 47 Ile Phe Gln Leu Asn Ser Ala Trp Trp Cys Asp Asn Gly Ile Thr
 48 80 85 90
 49 Pro Thr Lys Asn Leu Cys His Met Asp Cys His Asp Leu Leu Asn
 50 95 100 105
 51 Arg His Ile Leu Asp Asp Ile Arg Cys Ala Lys Gln Ile Val Ser
 52 110 115 120
 53 Ser Gln Asn Gly Leu Ser Ala Trp Thr Ser Trp Arg Leu His Cys

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57 Val Lys Ile Asp Pro Lys Ile His Pro
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63 <213> ORGANISM: Homo sapiens
65 <220> FEATURE:
66 <221> NAME/KEY: misc feature
67 <223> OTHER INFORMATION: Incyte ID No: 949738CD1
69 <400> SEQUENCE: 2
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72 Ile Arg Gly Val Pro Glu Ser Leu Ala Ser Gly Glu Gly Ala Gly
73          20          25          30
74 Ala Gly Leu Pro Ala Leu Asp Leu Ala Lys Ala Gln Arg Glu His
75          35          40          45
76 Gly Val Leu Gly Gly Lys Leu Arg Gln Arg Leu Gly Leu Gln Leu
77          50          55          60
78 Leu Glu Leu Pro Pro Glu Glu Ser Leu Pro Leu Gly Pro Leu Leu
79          65          70          75
80 Gly Asp Thr Ala Val Ile Gln Gly Asp Thr Ala Leu Ile Thr Arg
81          80          85          90
82 Pro Trp Ser Pro Ala Arg Arg Pro Glu Val Asp Gly Val Arg Lys
83          95          100          105
84 Ala Leu Gln Asp Leu Gly Leu Arg Ile Val Glu Ile Gly Asp Glu
85          110          115          120
86 Asn Ala Thr Leu Asp Gly Thr Asp Val Leu Phe Thr Gly Arg Glu
87          125          130          135
88 Phe Phe Val Gly Leu Ser Lys Trp Thr Asn His Arg Gly Ala Glu
89          140          145          150
90 Ile Val Ala Asp Thr Phe Arg Asp Phe Ala Val Ser Thr Val Pro
91          155          160          165
92 Val Ser Gly Pro Ser His Leu Arg Gly Leu Cys Gly Met Gly Gly
93          170          175          180
94 Pro Arg Thr Val Val Ala Gly Ser Ser Asp Ala Ala Gln Lys Ala
95          185          190          195
96 Val Arg Ala Met Ala Val Leu Thr Asp His Pro Tyr Ala Ser Leu
97          200          205          210
98 Thr Leu Pro Asp Asp Ala Ala Ala Asp Cys Leu Phe Leu Arg Pro
99          215          220          225
100 Gly Leu Pro Gly Val Pro Pro Phe Leu Leu His Arg Gly Gly Gly
101          230          235          240
102 Asp Leu Pro Asn Ser Gln Glu Ala Leu Gln Lys Leu Ser Asp Val
103          245          250          255
104 Thr Leu Val Pro Val Ser Cys Ser Glu Leu Glu Lys Ala Gly Ala
105          260          265          270

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117 <223> OTHER INFORMATION: Incyte ID No: 1297034CD1
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123          20          25          30
124 Ala Cys Leu Leu Thr Gly Ser Leu Phe Val Leu Leu Arg Val Phe
125          35          40          45
126 Ser Phe Glu Pro Val Pro Ser Cys Arg Ala Leu Gln Val Leu Lys
127          50          55          60
128 Pro Arg Asp Arg Ile Ser Ala Ile Ala His Arg Gly Gly Ser His
129          65          70          75
130 Asp Ala Pro Glu Asn Thr Leu Ala Ala Ile Arg Gln Ala Ala Lys
131          80          85          90
132 Asn Gly Ala Thr Gly Val Glu Leu Asp Ile Glu Phe Thr Ser Asp
133          95          100          105
134 Gly Ile Pro Val Leu Met His Asp Asn Thr Val Asp Arg Thr Thr
135          110          115          120
136 Asp Gly Thr Gly Arg Leu Cys Asp Leu Thr Phe Glu Gln Ile Arg
137          125          130          135
138 Lys Leu Asn Pro Ala Ala Asn His Arg Leu Arg Asn Asp Phe Pro
139          140          145          150
140 Asp Glu Lys Ile Pro Thr Leu Arg Glu Ala Val Ala Glu Cys Leu
141          155          160          165
142 Asn His Asn Leu Thr Ile Phe Phe Asp Val Lys Gly His Ala His
143          170          175          180
144 Lys Ala Thr Glu Ala Leu Lys Lys Met Tyr Met Glu Phe Pro Gln
145          185          190          195
146 Leu Tyr Asn Asn Ser Val Val Cys Ser Phe Leu Pro Glu Val Ile
147          200          205          210
148 Tyr Lys Met Arg Gln Thr Asp Arg Asp Val Ile Thr Ala Leu Thr
149          215          220          225
150 His Arg Pro Trp Ser Leu Ser His Thr Gly Asp Gly Lys Pro Arg
151          230          235          240
152 Tyr Asp Thr Phe Trp Lys His Phe Ile Phe Val Met Met Asp Ile
153          245          250          255
154 Leu Leu Asp Trp Ser Met His Asn Ile Leu Trp Tyr Leu Cys Gly
155          260          265          270
156 Ile Ser Ala Phe Leu Met Gln Lys Asp Phe Val Ser Pro Ala Tyr
157          275          280          285
158 Leu Lys Lys Trp Ser Ala Lys Gly Ile Gln Val Val Gly Trp Thr

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159          290          295          300
160 Val Asn Thr Phe Asp Glu Lys Ser Tyr Tyr Glu Ser His Leu Gly
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168 <211> LENGTH: 153
169 <212> TYPE: PRT
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173 <221> NAME/KEY: misc_feature
174 <223> OTHER INFORMATION: Incyte ID No: 1553276CD1
176 <400> SEQUENCE: 4
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179 Val Leu Pro Leu Trp Ser Ala Leu Pro Gln Tyr Lys Lys Lys Ile
180          20          25          30
181 Thr Asp Arg Cys Phe His His Ser Glu Cys Tyr Ser Gly Cys Cys
182          35          40          45
183 Leu Met Asp Leu Asp Ser Gly Gly Ala Phe Cys Ala Pro Arg Ala
184          50          55          60
185 Arg Ile Thr Met Ile Cys Leu Pro Gln Trp Leu Glu Leu Phe Lys
186          65          70          75
187 Gly Arg Asp Cys Ile Ile Phe Ile Tyr Glu Ala Pro Thr Pro Ser
188          80          85          90
189 Leu Val Ser Ala His Asn Gln Gly Ser Tyr Gln His His Leu Pro
190          95          100          105
191 Leu Pro Asp Gly Leu Asp Val His Ile Gln Gly Leu Asp Val Phe
192          110          115          120
193 Pro Pro Val Pro Tyr Asp Leu Glu Glu Asp Ala Gly Trp Ser Leu
194          125          130          135
195 Leu Pro Trp Gly His Arg Pro Trp Leu Pro Pro Thr Cys Ser Lys
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197 Ser Ser Ser
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202 <212> TYPE: PRT
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205 <220> FEATURE:
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209 <400> SEQUENCE: 5
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212 Val Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu
213          20          25          30
214 Val Ala Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly
215          35          40          45

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216	Arg	Gln	Val	Gly	Val	Lys	Gly	Thr	Asp	Arg	Leu	Val	Asn	Val	Phe
217					50					55					60
218	Leu	Gly	Ile	Pro	Phe	Ala	Gln	Pro	Pro	Leu	Gly	Pro	Asp	Arg	Phe
219					65					70					75
220	Ser	Ala	Pro	His	Pro	Ala	Gln	Pro	Trp	Glu	Gly	Val	Arg	Asp	Ala
221					80					85					90
222	Ser	Thr	Ala	Pro	Pro	Met	Cys	Leu	Gln	Asp	Val	Glu	Ser	Met	Asn
223					95					100					105
224	Ser	Ser	Arg	Phe	Val	Leu	Asn	Gly	Lys	Gln	Gln	Ile	Phe	Ser	Val
225					110					115					120
226	Ser	Glu	Asp	Cys	Leu	Val	Leu	Asn	Val	Tyr	Ser	Pro	Ala	Glu	Val
227					125					130					135
228	Pro	Ala	Gly	Ser	Gly	Arg	Pro	Val	Met	Val	Trp	Val	His	Gly	Gly
229					140					145					150
230	Ala	Leu	Ile	Thr	Gly	Ala	Ala	Thr	Ser	Tyr	Asp	Gly	Ser	Ala	Leu
231					155					160					165
232	Ala	Ala	Tyr	Gly	Asp	Val	Val	Val	Val	Thr	Val	Gln	Tyr	Arg	Leu
233					170					175					180
234	Gly	Val	Leu	Gly	Phe	Phe	Ser	Thr	Gly	Asp	Glu	His	Ala	Pro	Gly
235					185					190					195
236	Asn	Gln	Gly	Phe	Leu	Asp	Val	Val	Ala	Ala	Leu	Arg	Trp	Val	Gln
237					200					205					210
238	Glu	Asn	Ile	Ala	Pro	Phe	Gly	Gly	Asp	Leu	Asn	Cys	Val	Thr	Val
239					215					220					225
240	Phe	Gly	Gly	Ser	Ala	Gly	Gly	Ser	Ile	Ile	Ser	Gly	Leu	Val	Leu
241					230					235					240
242	Ser	Pro	Val	Ala	Ala	Gly	Leu	Phe	His	Arg	Ala	Ile	Thr	Gln	Ser
243					245					250					255
244	Gly	Val	Ile	Thr	Thr	Pro	Gly	Ile	Ile	Asp	Ser	His	Pro	Trp	Pro
245					260					265					270
246	Leu	Ala	Gln	Lys	Ile	Ala	Asn	Thr	Leu	Ala	Cys	Ser	Ser	Ser	Ser
247					275					280					285
248	Pro	Ala	Glu	Met	Val	Gln	Cys	Leu	Gln	Gln	Lys	Glu	Gly	Glu	Glu
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251					305					310					315
252	Val	Asp	Gly	Thr	Val	Phe	Pro	Lys	Ser	Pro	Lys	Glu	Leu	Leu	Lys
253					320					325					330
254	Glu	Lys	Pro	Phe	His	Ser	Val	Pro	Phe	Leu	Met	Gly	Val	Asn	Asn
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256	His	Glu	Phe	Ser	Trp	Leu	Ile	Pro	Arg	Gly	Trp	Gly	Leu	Leu	Asp
257					350					355					360
258	Thr	Met	Glu	Gln	Met	Ser	Arg	Glu	Asp	Met	Leu	Ala	Ile	Ser	Thr
259					365					370					375
260	Pro	Val	Leu	Thr	Ser	Leu	Asp	Val	Pro	Pro	Glu	Met	Met	Pro	Thr
261					380					385					390
262	Val	Ile	Asp	Glu	Tyr	Leu	Gly	Ser	Asn	Ser	Asp	Ala	Gln	Ala	Lys
263					395					400					405
264	Cys	Gln	Ala	Phe	Gln	Glu	Phe	Met	Gly	Asp	Val	Phe	Ile	Asn	Val

VERIFICATION SUMMARY

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Output Set: N:\CRF4\02112003\I831455B.raw

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